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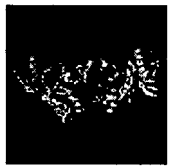
☑ **1FGK**



CRYSTAL STRUCTURE OF THE TYROSINE KINASE DOMAIN OF FIBROBLAST GROWTH FACTOR RECEPTOR 1

Characteristics **Release Date:** 23-Jul-1997 **Exp. Method:** X Ray Diffraction

Resolution: 2.00 Å

Classification **Phosphotransferase**

Compound Polymer: 1 Molecule: FGF RECEPTOR 1 Fragment: TYROSINE KINASE DOMAIN, HUMAN FGFR RESIDUES THAT POSSESS PTK ACTIVITY Mutation: L457V, C488A, C584S Chains: A,B EC no.: 2.7.1.112

Authors **Mohammadi, M., Schlessinger, J., Hubbard, S.R.**

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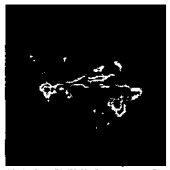
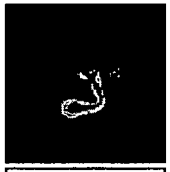
☑ **2GE9** **Solution Structures of the SH2 domain of Bruton's Tyrosine Kinase**



Characteristics **Release Date:** 24-Oct-2006 **Exp. Method:** NMR 20 Structures
Classification **Transferase**
Compound Polymer: 1 Molecule: Tyrosine-protein kinase BTK Fragment: SH2 domain Chains: A EC no.: 2.7.1.112
Authors **Huang, K.-C., Cheng, H.-T., Pai, M.-T., Tzeng, S.-R., Cheng, J.-W.**

☑ **1AWW** **SH3 DOMAIN FROM BRUTON'S TYROSINE KINASE, NMR, 42 STRUCTURES**



Characteristics **Release Date:** 08-Apr-1998 **Exp. Method:** NMR 42 Structures
Classification **Transferase**
Compound Polymer: 1 Molecule: BRUTON'S TYROSINE KINASE Fragment: SH3 DOMAIN Chains: _ EC no.: 2.7.1.112
Authors **Hansson, H., Mattsson, P.T., Allard, P., Haapaniemi, P., Vihinen, M., Smith, C.I., Hard, T.**

☑ **1AWX** **SH3 DOMAIN FROM BRUTON'S TYROSINE KINASE, NMR, MINIMIZED AVERAGE STRUCTURE**

Characteristics **Release Date:** 08-Apr-1998 **Exp. Method:** NMR
Classification **Transferase**
Compound Polymer: 1 Molecule: BRUTON'S TYROSINE KINASE Fragment: SH3 DOMAIN Chains: _ EC no.: 2.7.1.112
Authors **Hansson, H., Mattsson, P.T., Allard, P., Haapaniemi, P., Vihinen, M., Smith, C.I., Hard, T.**

☑ **1QLY** **NMR STUDY OF THE SH3 DOMAIN FROM BRUTON'S TYROSINE KINASE, 20 STRUCTURES**

Characteristics **Release Date:** 14-Dec-1999 **Exp. Method:** NMR 20 Structures

Classification **Tyrosine Protein Kinase**

Compound Polymer: 1 Molecule: TYROSINE-PROTEIN KINASE BTK Fragment: SH3 DOMAIN RESIDUES 21-273 Chains: A EC no.: 2.7.1.112

Authors **Tzeng, S.R., Lou, Y.C., Pai, M.T., Jain, M.L., Cheng, J.W.**

☑ **1UNR**

CRYSTAL STRUCTURE OF THE PH DOMAIN OF PKB ALPHA IN COMPLEX WITH A SULFATE MOLECULE

Characteristics **Release Date:** 16-Sep-2004 **Exp. Method:** X Ray Diffraction

Resolution: 1.25 Å

Classification **Transferase**

Compound Polymer: 1 Molecule: RAC-ALPHA SERINE/THREONINE KINASE Fragment: PLECKSTRIN HOMOLOGY DOMAIN, RESIDUES 1-123 Chains: A EC no.: 2.7.1.-

Authors **Milburn, C.C., Deak, M., Kelly, S.M., Price, N.C., Alessi, D.R., Van Aalten, D.M.F.**

☑ **1B55**

PH DOMAIN FROM BRUTON'S TYROSINE KINASE IN COMPLEX WITH INOSITOL 1,3,4,5-TETRAKISPHOSPHATE

Characteristics **Release Date:** 15-Jun-1999 **Exp. Method:** X Ray Diffraction

Resolution: 2.40 Å

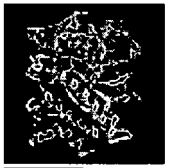
Classification **Transferase**

Compound Polymer: 1 Molecule: TYROSINE-PROTEIN KINASE BTK Fragment: PH DOMAIN AND BTK MOTI Chains: A,B EC no.: 2.7.1.112 Other Details: COMPLEX WITH INOSITOL 1,3,4,5-TETRAKISPHOSPHATE

Authors **Baraldi, E., Carugo, K.D., Hyvonen, M., Surdo, P.L., Riley, A.M., Potter, B.V., O`Brien, R., Ladbury, J.E., Saraste, M.**

☑ **1K2P**

Crystal structure of Bruton's tyrosine kinase domain



Characteristics **Release Date:** 26-Jun-2002 **Exp. Method:** X Ray Diffraction

Resolution: 2.10 Å

Classification **Transferase**

Compound Polymer: 1 Molecule: Tyrosine-protein kinase BTK Fragment: Bruton's tyrosine kinase domain Chains: A,B EC no.: 2.7.1.112

Authors **Mao, C., Zhou, M., Uckun, F.M.**

☑ 1BTK

PH DOMAIN AND BTK MOTIF FROM BRUTON'S TYROSINE KINASE MUTANT R28C

Characteristics **Release Date:** 17-Sep-1997 **Exp. Method:** X Ray Diffraction

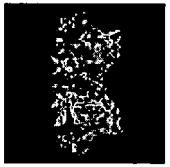
Resolution: 1.60 Å

Classification **Transferase**

Compound Polymer: 1 Molecule: BRUTON'S TYROSINE KINASE Fragment: PH DOMAIN AND BTK MOTIF Mutation: R28C Chains: A,B EC no.: 2.7.1.112

Authors **Hyvonen, M., Saraste, M.**

☑ 1BWN



PH DOMAIN AND BTK MOTIF FROM BRUTON'S TYROSINE KINASE MUTANT E41K IN COMPLEX WITH INS(1,3,4,5)P4

Characteristics **Release Date:** 15-Jun-1999 **Exp. Method:** X Ray Diffraction

Resolution: 2.10 Å

Classification **Transferase**

Compound Polymer: 1 Molecule: BRUTON'S TYROSINE KINASE Fragment: PH DOMAIN AND BTK MOTIF Mutation: E41K Chains: A,B EC no.: 2.7.1.112

Authors **Baraldi, E., Carugo, K.D., Hyvonen, M., Surdo, P.L., Riley, A.M., Potter, B.V., O`Brien, R., Ladbury, J.E., Saraste, M.**

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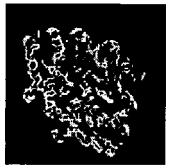
1Y8G



Catalytic and ubiqutin-associated domains of MARK2/PAR-1: Inactive double mutant with selenomethionine

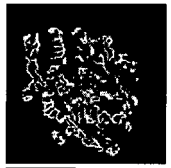
Characteristics **Release Date:** 14-Feb-2006 **Exp. Method:** X Ray Diffraction
Resolution: 2.50 Å

Classification **Signaling Protein Transferase**

Compound Polymer: 1 Molecule: MAP/Microtubule affinity-regulating kinase 2 Fragment: catalytic and ubiquitin associated domains, residues 39-364 Mutation: T208A, S212A Chains: A,B EC no.: 2.7.1.37

Authors **Panneerselvam, S., Marx, A., Mandelkow, E.-M., Mandelkow, E.**

1ZMU



Catalytic and ubiqutin-associated domains of MARK2/PAR-1: Wild type

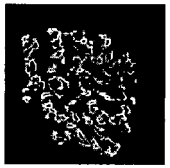
Characteristics **Release Date:** 14-Feb-2006 **Exp. Method:** X Ray Diffraction
Resolution: 2.90 Å

Classification **Signaling Protein Transferase**

Compound Polymer: 1 Molecule: MAP/Microtubule affinity regulating kinase 2 Fragment: CATALYTIC AND UBIQUITIN-ASSOCIATED DOMAINS Chains: A,B EC no.: 2.7.1.37

Authors **Panneerselvam, S., Marx, A., Mandelkow, E.-M., Mandelkow, E.**

1ZMV



Catalytic and ubiqutin-associated domains of MARK2/PAR-1: K82R mutant

Characteristics **Release Date:** 14-Feb-2006 **Exp. Method:** X Ray Diffraction
Resolution: 3.11 Å

Classification **Signaling Protein Transferase**

Compound Polymer: 1 Molecule: MAP/Microtubule affinity regulating kinase 2 Fragment: CATALYTIC AND UBIQUITIN-ASSOCIATED DOMAINS Mutation: K82R Chains: A,B EC no.: 2.7.1.37

Authors **Panneerselvam, S., Marx, A., Mandelkow, E.-M., Mandelkow, E.**

☑ 1ZMW

Catalytic and ubiqutin-associated domains of MARK2/PAR-1: T208A/S212A inactive double mutant

Characteristics **Release Date:** 14-Feb-2006 **Exp. Method:** X Ray Diffraction

Resolution: 2.80 Å

Classification **Signaling Protein Transferase**

Compound Polymer: 1 Molecule: MAP/Microtubule affinity regulating kinase 2 Fragment: CATALYTIC AND UBIQUITIN-ASSOCIATED DOMAINS Mutation: T208A, S212A Chains: A,B EC no.: 2.7.1.37

Authors **Panneerselvam, S., Marx, A., Mandelkow, E.-M., Mandelkow, E.**

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☐	L4	(Bruton's tyrosine kinase or BTK or ATK or BPK or EMK) and crystal$8 and x-ray	155
		DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ	
☐	L3	L2 and diffraction	46
☐	L2	(Bruton's tyrosine kinase or BTK or ATK or BPK or EMK) and crystal$8 and x-ray	111
☐	L1	(Bruton's tyrosine kinase or BTK or ATK or BPK or EMK) and crystal$8	384

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☐ 1. Document ID: US 7129253 B2

L3: Entry 1 of 46 File: USPT Oct 31, 2006

US-PAT-NO: 7129253
DOCUMENT-IDENTIFIER: US 7129253 B2

TITLE: Compounds

DATE-ISSUED: October 31, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040191210 A1	September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Glennon; Kimberley Caroline	Cary	NC		US
Kuyper; Lee Frederick	Durham	NC		US
Lackey; Karen Elizabeth	Hillsborough	NC		US
McNutt, Jr.; Robert Walton	Durham	NC		US

US-CL-CURRENT: 514/338; 514/339, 514/345, 546/113, 546/151

ABSTRACT:

##STR00001## Compounds of formula (I) wherein R1, R2, R3, R4, R5, R6, R7, R8, A, D, X, Y and Z have the meaning as defined in the claims exhibit protein tyrosine kinase and protein serin/threonine kinase inhibitory activity.

11 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 7125660 B2

L3: Entry 2 of 46 File: USPT Oct 24, 2006

US-PAT-NO: 7125660
DOCUMENT-IDENTIFIER: US 7125660 B2

TITLE: Nucleic acid sensor molecules and methods of using same

DATE-ISSUED: October 24, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040219523 A1	November 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stanton; Martin	Stow	MA		US
Epstein; David	Belmont	MA		US
Hamaguchi; Nobuko	Framingham	MA		US
Kurz; Markus	Newton	MA		US
Keefe; Tony	Cambridge	MA		US
Wilson; Charles	Concord	MA		US
Grate; Dilara	Waltham	MA		US
Marshall; Kristin A.	Arlington	MA		US
McCauley; Thomas G.	Somerville	MA		US
Kurz; Jeffrey C.	Somerville	MA		US

US-CL-CURRENT: 435/4; 435/6, 536/22.1

ABSTRACT:

Methods for engineering a nucleic acid sensor molecule are provided. Biosensors comprise a plurality of nucleic acid sensor molecules labeled with a first signaling moiety and a second signaling moiety. The nucleic acid sensor molecules recognizes target molecules which do not naturally bind to DNA. Binding of a target molecule to the sensor molecules triggers a change in the proximity of the signaling moieties which leads to a change in the optical properties of the nucleic acid sensor molecules on the biosensor. Reagents and systems for performing the method are also provided. The method is useful in diagnostic applications and drug optimization.

54 Claims, 93 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 90

☐ 3. Document ID: US 7118889 B1

L3: Entry 3 of 46 File: USPT Oct 10, 2006

US-PAT-NO: 7118889
DOCUMENT-IDENTIFIER: US 7118889 B1

TITLE: Protein tyrosine kinase substrate LAT and its use in the indentification of (ant)agonists of the kinase

DATE-ISSUED: October 10, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Samelson; Lawrence E.	Chevy Chase	MD		US
Zhang; Weiguo	Chapel Hill	NC		US

US-CL-CURRENT: 435/69.6; 435/70.2, 530/387.1, 530/388.1

ABSTRACT:

The invention generally relates to compositions and methods for identifying and testing tyrosine kinase signaling pathway agonists and antagonists, and more particularly, methods and compositions for screening compounds and identifying compounds that will modulate the interaction of protein tyrosine kinase substrates with their intracellular ligands, as well as between their intracellular ligands and other members of the signaling pathway.

12 Claims, 46 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 36

☐ 4. Document ID: US 7105529 B2

L3: Entry 4 of 46 File: USPT Sep 12, 2006

US-PAT-NO: 7105529
DOCUMENT-IDENTIFIER: US 7105529 B2

TITLE: Substituted oxindole derivatives as protein tyrosine and as protein serine/threonine kinase inhibitors and compositions and methods of treating chemotherapy and radiation therapy side effects

DATE-ISSUED: September 12, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20030069430 A1	April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Stephen Thomas	Durham	NC		US
Dickerson; Scott Howard	Chapel Hill	NC		US
Frye; Stephen Vernon	Durham	NC		US
Harris; Philip Anthony	Raleigh	NC		US
Hunter, III; Robert Neil	Raleigh	NC		US
Kuyper; Lee Frederick	Durham	NC		US
Lackey; Karen Elizabeth	Hillsborough	NC		US

Luzzio; Michael Joseph	Groton	CT	US
Veal; James Marvin	Apex	NC	US
Walker; Duncan Herrick	Summit	NJ	US

US-CL-CURRENT: 514/272; 514/291, 514/365, 514/366

ABSTRACT:

Compounds of formula (I): wherein X is N, CH, CCF.sub.3, or C(C.sub.1-12 aliphatic); R.sup.4 is sulfonic acid, C.sub.1-12 aliphatic-sulfonyl, sulfonyl-C.sub.1-12 aliphatic, C.sub.1-12 aliphatic-sulfonyl-C.sub.1-6 aliphatic, C.sub.1-6 aliphatic-amino, R.sup.7-sulfonyl, R.sup.7 sulfonyl-C.sub.1-12 aliphatic, R.sup.7-aminosulfonyl, R.sup.7-aminosulfonyl-C.sub.1-12 aliphatic, R.sup.7-sulfonylamino, R.sup.7-sulfonylamino-C.sub.1-12 aliphatic, aminosulfonylamino, di-C.sub.1-12 aliphatic amino, di-C.sub.1-12 aliphatic aminocarbonyl, di-C.sub.1-12 aliphatic aminosulfonyl, di-C.sub.1-12 aliphatic amino, di-C.sub.1-12 aliphatic aminocarbonyl, di-C.sub.1-12 aliphatic aminosulfonyl-C.sub.1-12 aliphatic, (R.sup.8).sub.1-3-Arylamino, (R.sup.8).sub.1-3-Arylsulfonyl, (R.sup.8).sub.1-3-Aryl-aminosulfonyl, (R.sup.8).sub.1-3-Aryl-sulfonylamino, Het-amino, Het-sulfonyl, Het-aminosulfonyl, aminoiminoamino, or aminoiminoaminosulfonyl, R.sup.5 is hydrogen; and further wherein R.sup.4 and R.sup.5 are optionally joined to form a fused ring, pharmaceutical formulations comprising them and their use in therapy, especially in the treatment of diseases mediated by CDK2 activity, such as alopecia induced by cancer chemotherapy or radiotherapy.

5 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 5. Document ID: US 7091351 B2

L3: Entry 5 of 46 File: USPT Aug 15, 2006

US-PAT-NO: 7091351
DOCUMENT-IDENTIFIER: US 7091351 B2

TITLE: Vanadium compounds for treating cancer

DATE-ISSUED: August 15, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040235815 A1	November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dong; Yanhong	Moundsview	MN		US
Gosh; Phalguni	Shoreview	MN		US
Uckun; Fatih M.	White Bear Lake	MN		US

US-CL-CURRENT: 546/2; 546/10, 546/6, 546/88, 549/206, 549/210, 549/212

ABSTRACT:

The invention provides methods for treating cancer and compounds that are useful for the treatment of tumors, as well as pharmaceutical compositions comprising the compounds, and synthetic methods and intermediates useful for preparing the compounds.

3 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 6. Document ID: US 7084147 B2

L3: Entry 6 of 46 File: USPT Aug 1, 2006

US-PAT-NO: 7084147
DOCUMENT-IDENTIFIER: US 7084147 B2

TITLE: Anilinoquinazaolines as protein tyrosine kinase inhibitors

DATE-ISSUED: August 1, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050143401 A1	June 30, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cockerill; George Stuart	Maulden			GB
Lackey; Karen Elizabeth	Durham	NC		US

US-CL-CURRENT: 514/266.2; 514/266.24, 544/284, 544/293

ABSTRACT:

Heteroaromatic compounds are described, methods for their preparation, pharmaceutical compositions containing them, methods of use, and their use in medicines. In particular, the invention relates to quinazoline and pyridopyrimidine derivatives which exhibit protein tyrosine kinase inhibition.

29 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 7. Document ID: US 7049116 B2

L3: Entry 7 of 46 File: USPT May 23, 2006

US-PAT-NO: 7049116
DOCUMENT-IDENTIFIER: US 7049116 B2

TITLE: Engineered protein kinases which can utilize modified nucleotide triphosphate substrates

DATE-ISSUED: May 23, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20020146797 A1	October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shokat; Kevan M.	San Francisco	CA		US

US-CL-CURRENT: 435/193; 536/23.2

ABSTRACT:

Engineered protein kinases which can utilize modified nucleotide triphosphate substrates that are not as readily utilized by the wild-type forms of those enzymes, and methods of making and using them are disclosed. Modified nucleotide triphosphate substrates and methods of making and using them are disclosed. Methods are disclosed for using such engineered kinases and such modified substrates to identify which protein substrates the kinases act upon, to measure the extent of such action, and to determine if test compounds can modulate such action. Engineered forms of multi-substrate enzymes which covalently attach part or all of at least one (donor) substrate to at least one other (recipient) substrate, which engineered forms will accept modified substrates that are not as readily utilized by the wild-type forms of those enzymes are disclosed. Methods for making and using such engineered enzymes are disclosed. Modified substrates and methods of making and using them are disclosed. Methods are disclosed for using such engineered enzymes and such modified substrates to identify the recipient substrates the enzymes act upon, to measure the extent of such action, and to measure whether test compounds modulate such action.

2 Claims, 47 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 24

☐ 8. Document ID: US 7026461 B1

L3: Entry 8 of 46 File: USPT Apr 11, 2006

US-PAT-NO: 7026461
DOCUMENT-IDENTIFIER: US 7026461 B1

TITLE: Engineered protein kinases which can utilize nucleotide triphosphate substrates

DATE-ISSUED: April 11, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shokat; Kevan	San Francisco	CA		US

US-CL-CURRENT: 536/23.1; 424/193.1, 435/15, 435/193, 435/6, 435/69.1, 536/23.2, 536/23.6, 536/23.7, 536/24.31, 536/24.32 , 536/24.33, 536/24.5

ABSTRACT:

Engineered protein kinases which can utilize modified nucleotide triphosphate substrates that are not as readily utilized by the wild-type forms of those enzymes, and methods of making and using them. Modified nucleotide triphosphate substrates and methods of making and using them. Methods for using such engineered kinases and such modified substrates to identify which protein substrates the kinases act upon, to measure the extent of such action, and to determine if test compounds can modulate such action. Also Engineered forms of multi-substrate enzymes which covalently attach part or all of at least one (donor) substrate to at least one other (recipient) substrate, which engineered forms will accept modified substrates that are not as readily utilized by the wild-type forms of those enzymes. Methods for making and using such engineered enzymes. Modified substrates and methods of making and using them. Methods for using such engineered enzymes and such modified substrates to identify the recipient substrates the enzymes act upon, to measure the extent of such action, and to measure whether test compounds modulate such action.

18 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 24

☐ 9. Document ID: US 7015231 B2

L3: Entry 9 of 46 File: USPT Mar 21, 2006

US-PAT-NO: 7015231
DOCUMENT-IDENTIFIER: US 7015231 B2

TITLE: Chemical compounds

DATE-ISSUED: March 21, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040198766 A1	October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lackey; Karen Elizabeth	Durham	NC		US
Wood, III; Edgar Raymond	Durham	NC		US

US-CL-CURRENT: 514/300; 546/113

ABSTRACT:

The present invention is related to aza-oxindole derivatives, compositions containing the same, and methods of use and manufacture of the same. Such compounds generally are useful pharmacologically as agents in those disease states alleviated by the alteration of mitogen activated signaling pathways in general, and in particular in the inhibition or antagonism of protein kinases, which pathologically involve aberrant cellular proliferation. Such disease states include tumor growth, restenosis, atherosclerosis, pain and thrombosis. In particular, the present invention relates to a series of substituted oxindole compounds, which exhibit Trk family protein tyrosine kinase inhibition, and which are useful in cancer therapy and chronic pain indications.

7 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 10. Document ID: US 6998233 B2

L3: Entry 10 of 46 File: USPT Feb 14, 2006

US-PAT-NO: 6998233
DOCUMENT-IDENTIFIER: US 6998233 B2

TITLE: Methods for ligand discovery

DATE-ISSUED: February 14, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20020155505 A1	October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wells; Jim	Burlingame	CA		US
Erlanson; Dan	San Francisco	CA		US
Braisted; Andrew C.	San Francisco	CA		US

US-CL-CURRENT: 435/6; 435/7.1

ABSTRACT:

The present invention provides novel methods for ligand discovery. The inventive methods rely on a process termed "tethering" where potential ligands are covalently bonded or "tethered" to a target and subsequently identified.

12 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 11. Document ID: US 6964977 B2

L3: Entry 11 of 46 File: USPT Nov 15, 2005

US-PAT-NO: 6964977
DOCUMENT-IDENTIFIER: US 6964977 B2

TITLE: Oxindole derivatives

DATE-ISSUED: November 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harris; Philip Anthony	Durham	NC		
Hunter; Robert N	Durham	NC		
McNutt, Jr.; Robert Walton	Durham	NC		
Kuyper; Lee Frederick	Durham	NC		
Lackey; Karen Elizabeth	Durham	NC		
Peel; Michael Robert	Durham	NC		
Wood, III; Edgar Raymond	Durham	NC		

US-CL-CURRENT: 514/387; 514/339, 514/364, 514/383, 514/418, 546/196, 548/131, 548/266.4, 548/305.1, 548/486

ABSTRACT:

The present invention is related to oxindole derivatives of structure (I), compositions containing the same, and methods of use and manufacture of the same. Such compounds generally are useful pharmacologically as agents in those disease states alleviated by the alteration of mitogen activated signaling pathways in general, and in particular in the inhibition or antagonism of protein kinases, which pathologically involve aberrant cellular proliferation. Such disease states include tumor growth, restenosis, atherosclerosis, pain and thrombosis. In particular, the present invention relates to a series of substituted oxindole compounds, which exhibit Trk family protein tyrosine kinase inhibition, and which are useful in cancer therapy and chronic pain indications.

9 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 12. Document ID: US 6933299 B1

L3: Entry 12 of 46 File: USPT Aug 23, 2005

US-PAT-NO: 6933299

DOCUMENT-IDENTIFIER: US 6933299 B1

TITLE: Anilinoquinazolines as protein tyrosine kinase inhibitors

DATE-ISSUED: August 23, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cockerill; George Stuart	Maulden			GB
Lackey; Karen Elizabeth	Durham	NC		

US-CL-CURRENT: 514/266.2; 514/266.4, 544/293

ABSTRACT:

Heteroaromatic compounds are described, methods for their preparation, pharmaceutical compositions containing them, methods of use, and their use in medicines. In particular, the invention relates to quinazoline and pyridopyrimidine derivatives which exhibit protein tyrosine kinase inhibition.

30 Claims, 0 Drawing figures
Exemplary Claim Number: 1

☐ 13. Document ID: US 6919178 B2

L3: Entry 13 of 46 File: USPT Jul 19, 2005

US-PAT-NO: 6919178
DOCUMENT-IDENTIFIER: US 6919178 B2

TITLE: Extended tethering approach for rapid identification of ligands

DATE-ISSUED: July 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Erlanson; Daniel A.	San Francisco	CA		
Braisted; Andrew C.	San Francisco	CA		
McDowell; Robert	San Francisco	CA		
Prescott; John	San Francisco	CA		

US-CL-CURRENT: 435/6; 435/4, 435/7.1

ABSTRACT:

The invention concerns a method for rapid identification and characterization of binding partners for a target molecule, and for providing binding partners with improved binding affinity. More specifically, the invention concerns an improved tethering method for the rapid identification of at least two binding partners that

bind near one another to a target molecule.

27 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 14. Document ID: US 6872724 B2

L3: Entry 14 of 46 File: USPT Mar 29, 2005

US-PAT-NO: 6872724
DOCUMENT-IDENTIFIER: US 6872724 B2

TITLE: Polymorphs with tyrosine kinase activity

DATE-ISSUED: March 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhao; Matthew M.	Edison	PA		
Bilodeau; Mark T.	Lansdale	PA		

US-CL-CURRENT: 514/253.1; 514/21, 514/23, 544/364

ABSTRACT:

The present invention relates to active polymorphs of 4-[2-(5-cyano-thiazol-2-ylamino)-pyridin-4-ylmethyl]-piperazine-1-carboxyl ic acid methylamide which inhibit, regulate and/or modulate tyrosine kinase signal transduction, compositions which contain these compounds, and methods of using them to treat tyrosine kinase-dependent diseases and conditions, such as angio-genesis, cancer, tumor growth, atherosclerosis, age related macular degeneration, diabetic retinopathy, retinal ischemia, macular edema, inflammatory diseases, and the like in mammals.

7 Claims, 2 Drawing figures
Exemplary Claim Number: 1,3
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 15. Document ID: US 6864286 B2

L3: Entry 15 of 46 File: USPT Mar 8, 2005

US-PAT-NO: 6864286
DOCUMENT-IDENTIFIER: US 6864286 B2

TITLE: Inhibitors of the EGF-receptor tyrosine kinase and methods for their use

DATE-ISSUED: March 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uckun; Fatih M.	White Bear Lake	MN		
Zheng; Yaguo	New Brighton	MN		
Ghosh; Sutapa	Shoreview	MN		

US-CL-CURRENT: 514/521; 558/305

ABSTRACT:

Novel compounds and pharmaceutical compositions useful as EGFR tyrosine kinase inhibitors. Methods of the invention include administration of the EGFR TK inhibitors to treat diseases characterized by enhanced expression of EGF, including cancers, particularly breast cancer. Additionally, a homology model representing the structure of EGFR kinase domain is provided, which model is useful for the rationally design and screening of compounds predicted to bind favorably to EGFR and to inhibit EGFR TK.

3 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

☐ 16. Document ID: US 6818632 B2

L3: Entry 16 of 46 File: USPT Nov 16, 2004

US-PAT-NO: 6818632
DOCUMENT-IDENTIFIER: US 6818632 B2

TITLE: 3-(anilinomethylene)oxindoles

DATE-ISSUED: November 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Glennon; Kimberley Caroline	Cary	NC		
Lackey; Karen Elizabeth	Hillsborough	NC		

US-CL-CURRENT: 514/81; 514/300, 546/113, 546/23

ABSTRACT:

##STR1##

Compounds of formula (I), wherein R1, R2, R3, R4, R5, R6, R7, R8, A, D, X, Y and Z have the meaning as defined in the claims, exhibit protein tyrosine kinase and protein serin/threonine kinase inhibitory activity.

19 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 17. Document ID: US 6815439 B2

L3: Entry 17 of 46 File: USPT Nov 9, 2004

US-PAT-NO: 6815439
DOCUMENT-IDENTIFIER: US 6815439 B2

TITLE: Substituted aza-oxindole derivatives

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harris; Philip Anthony	Durham	NC		
Kuyper; Lee Frederick	Durham	NC		
Lackey; Karen Elizabeth	Durham	NC		
Veal; James Marvin	Durham	NC		

US-CL-CURRENT: 514/183; 514/229.2, 514/299, 514/412, 514/418, 514/430, 546/112, 546/113, 548/452, 548/453, 548/465

ABSTRACT:

Substituted aza-oxindole derivatives useful as cyclin dependent kinase II inhibitors, for preventing/reducing the severity of epithelial cytotoxicity side-effects (e.g., alopecia, plantar-palmar syndrome, mucositis) induced by chemoptherapy and/or radiation therapy in a patient receiving such therapy.

23 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 18. Document ID: US 6753348 B2

L3: Entry 18 of 46 File: USPT Jun 22, 2004

US-PAT-NO: 6753348
DOCUMENT-IDENTIFIER: US 6753348 B2
**** See image for Certificate of Correction ****

TITLE: BTK inhibitors and methods for their identification and use

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uckun; Fatih M.	White Bear Lake	MN		
Malaviya; Ravi	White House Station	NJ		

US-CL-CURRENT: 514/521; 558/392, 558/393

ABSTRACT:

The invention provides BTK inhibitors, methods for their identification and use, and pharmaceutical compositions comprising BTK inhibitors, including allergy treatments.

32 Claims, 76 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 42

☐ 19. Document ID: US 6743786 B2

L3: Entry 19 of 46 File: USPT Jun 1, 2004

US-PAT-NO: 6743786
DOCUMENT-IDENTIFIER: US 6743786 B2
**** See image for Certificate of Correction ****

TITLE: Vanadium compounds for treating cancer

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uckun; Fatih M.	White Bear Lake	MN		
Dong; Yanhong	Moundsview	MN		
Gosh; Phalguni	Shoreview	MN		

US-CL-CURRENT: 514/184; 514/185, 514/186, 514/187, 514/188, 544/225, 546/10, 546/2, 546/255, 546/6, 546/88, 549/206, 549/210, 549/212

ABSTRACT:

The invention provides methods for treating cancer and compounds that are useful for the treatment of tumors, as well as pharmaceutical compositions comprising the compounds, and synthetic methods and intermediates useful for preparing the compounds.

18 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

☐ 20. Document ID: US 6673908 B1

L3: Entry 20 of 46 File: USPT Jan 6, 2004

US-PAT-NO: 6673908
DOCUMENT-IDENTIFIER: US 6673908 B1

TITLE: Tumor necrosis factor receptor 2

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stanton, Jr.; Vincent P.	Belmont	MA		

US-CL-CURRENT: 536/22.1; 435/6, 435/91.1, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

ABSTRACT:

The present disclosure describes the use of genetic variance information for genes involved in inflammatory or immunologic disease, disorder, or dysfunction. The variance information is indicative of the expected response of a patient to a method of treatment. Methods of determining relevant variance information and additional methods of using such variance information are also described.

10 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 21. Document ID: US 6627655 B2

L3: Entry 21 of 46 File: USPT Sep 30, 2003

US-PAT-NO: 6627655
DOCUMENT-IDENTIFIER: US 6627655 B2
**** See image for Certificate of Correction ****

TITLE: Vanadium (IV) metallocene complexes having spermicidal activity

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
D'Cruz; Osmond	Maplewood	MN		
Ghosh; Phalguni	St. Anthony	MN		
Uckun; Fatih M.	White Bear Lake	MN		

US-CL-CURRENT: 514/492; 556/43

ABSTRACT:

Novel spermicidal compounds which are organometallic cyclopentadienyl metal complexes, particularly vanadium IV complexes, including their corresponding therapeutic compositions are described.

10 Claims, 23 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 22. Document ID: US 6624171 B1

L3: Entry 22 of 46 File: USPT Sep 23, 2003

US-PAT-NO: 6624171
DOCUMENT-IDENTIFIER: US 6624171 B1

TITLE: Substituted aza-oxindole derivatives

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harris; Philip Anthony	Durham	NC		
Kuyper; Lee Frederick	Durham	NC		
Lackey; Karen Elizabeth	Durham	NC		
Veal; James Marvin	Durham	NC		

US-CL-CURRENT: 514/293; 514/229.2, 514/299, 514/366, 514/411, 514/418, 514/426, 544/111, 544/179, 544/180, 544/242, 544/301, 544/336, 544/359, 544/368, 544/59, 544/61, 544/98, 546/113, 546/151, 546/79, 546/83, 548/427, 548/430, 548/431, 548/452, 548/465, 548/486, 548/490

ABSTRACT:

Substituted aza-oxindole derivatives useful as cyclin dependent kinase 11 inhibitors, for preventing/reducing the severity of epithelial cytotoxicity side-effects (e.g., alopecia, plantar-palmar syndrome, mucositis) induced by chemoptherapy and/or radiation therapy in a patient receiving such therapy.

9 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 23. Document ID: US 6613385 B2

L3: Entry 23 of 46 File: USPT Sep 2, 2003

US-PAT-NO: 6613385
DOCUMENT-IDENTIFIER: US 6613385 B2

TITLE: Highly spin-polarized chromium dioxide thin films prepared by CVD using chromyl chloride precursor

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Desito; William J.	Orono	ME		

US-CL-CURRENT: 427/255.31; 427/255.36, 427/255.7

ABSTRACT:

An efficient and controllable CVD method deposits a high quality epitaxial CrO.sub.2 thin film over a non-magnetic substrate in a process chamber by chemical vapor deposition using a volatile liquid chromium compound such as CrO.sub.2 Cl.sub.2 as a precursor. The method includes: selecting a volatile liquid chromium oxide precursor that decomposes in a heated process chamber to provide a chromium oxide layer on a substrate, placing the volatile liquid chromium oxide precursor in a first bubbler, transporting the volatile liquid chromium oxide precursor vapor with a carrier gas into the heated process chamber having the substrate therein, and growing the chromium oxide layer at a controlled growth rate on the substrate in the heated process chamber.

16 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

☐ 24. Document ID: US 6610483 B1

L3: Entry 24 of 46 File: USPT Aug 26, 2003

US-PAT-NO: 6610483
DOCUMENT-IDENTIFIER: US 6610483 B1

TITLE: Methods for identifying cellular responses attributable to signaling molecule inhibition and inhibitors thereof

DATE-ISSUED: August 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shokat; Kevan M.	San Francisco	CA		
Bishop; Anthony	San Diego	CA		

US-CL-CURRENT: 435/6; 435/183, 435/194, 435/325, 435/343, 435/69.1, 435/7.1, 435/7.2, 435/7.4, 536/23.1

ABSTRACT:

The present invention provides a method for the identification of a pattern of changes in cellular responses induced by the selective inhibition of a signaling molecule, by determining the specific effects of a selective inhibitor on a mutant form of a signaling molecule on cellular responses. The pattern of alterations in cellular responses resulting from the inhibition by a selective mutant inhibitor of the mutant signaling molecule are characteristic of the cellular response alterations that a specific inhibitor of the wild-type signaling molecule will produce. After determining the pattern of cellular responses of the mutant cells with the mutant molecule, compounds may be identified capable of inhibiting the wild-type molecule by producing a pattern of cellular responses in wild-type cells matching or having similarity to that of the inhibition of the mutant molecule.

28 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

☐ 25. Document ID: US 6589758 B1

L3: Entry 25 of 46 File: USPT Jul 8, 2003

US-PAT-NO: 6589758
DOCUMENT-IDENTIFIER: US 6589758 B1

TITLE: Crystal of a kinase-ligand complex and methods of use

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhu; Xiaotian	Watertown	MA		

US-CL-CURRENT: 435/15; 435/4, 530/350

ABSTRACT:

The invention relates to the three-dimensional structure of a crystal of a kinase enzyme complexed with a ligand. The three-dimensional structure of a protein kinase-ligand complex is disclosed. The invention also relates to methods of preparing such crystals. Kinase-ligand crystal structures wherein the ligand is an inhibitor molecule are useful for providing structural information that may be integrated into drug screening and drug design processes. Thus, the invention also relates to methods of using the crystal structure of kinase enzyme-ligand complexes for identifying, designing, selecting, or testing inhibitors of kinase enzymes, such inhibitors being useful as therapeutics for the treatment or modulation of i) diseases; ii) disease symptoms; or iii) the effect of other physiological events mediated by kinases; having one or more kinase enzymes involved in their pathology.

36 Claims, 32 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 26. Document ID: US 6521417 B1

L3: Entry 26 of 46 File: USPT Feb 18, 2003

US-PAT-NO: 6521417
DOCUMENT-IDENTIFIER: US 6521417 B1

TITLE: Engineered protein kinases which can utilize modified nucleotide triphosphate substrates

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shokat; Kevan M.	San Francisco	CA		

US-CL-CURRENT: 435/15; 435/194

ABSTRACT:

Engineered protein kinases which can utilize modified nucleotide triphosphate substrates that are not as readily utilized by the wild-type forms of those enzymes, and methods of making and using them are disclosed. Modified nucleotide triphosphate substrates and methods of making and using them are disclosed. Methods are disclosed for using such engineered kinases and such modified substrates to identify which protein substrates the kinases act upon, to measure the extent of such action, and to determine if test compounds can modulate such action. Engineered forms of multi-substrate enzymes which covalently attach part or all of at least one (donor) substrate to at least one other (recipient) substrate, which engineered forms will accept modified substrates that are not as readily utilized by the wild-type forms of those enzymes are disclosed. Methods for making and using such engineered enzymes are disclosed. Modified substrates and methods of making and using them are disclosed. Methods are disclosed for using such engineered enzymes and such modified substrates to identify the recipient substrates the enzymes act upon, to measure the extent of such action, and to measure whether test compounds modulate such action.

8 Claims, 44 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 24

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 27. Document ID: US 6500860 B2

L3: Entry 27 of 46 File: USPT Dec 31, 2002

US-PAT-NO: 6500860
DOCUMENT-IDENTIFIER: US 6500860 B2
** See image for Certificate of Correction **

TITLE: Vanadium (IV) metallocene complexes having spermicidal activity

DATE-ISSUED: December 31, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
D'Cruz; Osmond	Maplewood	MN		
Ghosh; Phalguni	St. Anthony	MN		
Uckun; Fatih M.	White Bear Lake	MN		

US-CL-CURRENT: 514/492

ABSTRACT:

Novel spermicidal compounds which are organometallic cyclopentadienyl metal complexes, particularly vanadium IV complexes, are described including corresponding contraceptive and therapeutic compositions and method for providing contraception and selective killing of testicular germ cells. Included among the vanadium complexes are bis(methyl cyclopentadienyl)vanadium dichloride, vanadocene di-pseudohalides, and others. Most active found was vanadocene diselenocyanate.

8 Claims, 24 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 28. Document ID: US 6498176 B1

L3: Entry 28 of 46 File: USPT Dec 24, 2002

US-PAT-NO: 6498176
DOCUMENT-IDENTIFIER: US 6498176 B1

TITLE: 3-(anilinomethylene) oxindoles as protein tyrosine kinase and protein serine/threonine kinase inhibitors

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lackey; Karen Elizabeth	Durham	NC		
McNutt, Jr.; Robert Walton	Durham	NC		

US-CL-CURRENT: 514/366; 514/292, 514/338, 514/374, 514/384, 514/418, 546/268.4, 546/84, 548/151, 548/236, 548/259, 548/302.1, 548/483

ABSTRACT:

##STR1##

Compounds of formula (I) wherein R1, R2, R3, R4, R5, R6, R7, R8, A, D, X, Y and Z have the meaning as defined in the claims exhibit protein tyrosine kinase and protein serin/threonine kinase inhibitory activity.

17 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 29. Document ID: US 6492398 B1

L3: Entry 29 of 46 File: USPT Dec 10, 2002

US-PAT-NO: 6492398
DOCUMENT-IDENTIFIER: US 6492398 B1

TITLE: Thiazoloindolinone compounds

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vyas; Ambrish	Durham	NC		

US-CL-CURRENT: 514/338; 546/276.1

ABSTRACT:

Thiazole-indole compounds useful as cyclin dependent kinase 11 inhibitors, for preventing/reducing the severity of epithelial cytotoxicity side-effects (e.g., alopecia, plantar-palmar syndrome, mucositis) induced by chemoptherapy and/or radiation therapy in a patient receiving such therapy.

50 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 30. Document ID: US 6432941 B1

L3: Entry 30 of 46 File: USPT Aug 13, 2002

US-PAT-NO: 6432941
DOCUMENT-IDENTIFIER: US 6432941 B1

TITLE: Vanadium compounds for treating cancer

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uckun; Fatih M.	White Bear Lake	MN		
Dong; Yanhong	Moundsview	MN		
Gosh; Phalguni	Shoreview	MN		

US-CL-CURRENT: 514/185; 514/184, 514/186, 514/187, 514/188, 514/492, 546/10, 546/2, 546/6, 546/88, 549/206, 549/210, 549/212

ABSTRACT:

The invention provides methods for treating cancer and vanadium compounds that are useful for the treatment of tumors, as well as pharmaceutical compositions comprising the compounds, and synthetic methods and intermediates useful for preparing the compounds.

12 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Terms	Documents
L2 and diffraction	46

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☐ 1. Document ID: US 20060194949 A1

L5: Entry 1 of 49 File: PGPB Aug 31, 2006

PGPUB-DOCUMENT-NUMBER: 20060194949
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060194949 A1

TITLE: Structure of the farnesoid x receptor ligand binding domain and methods of use therefor

PUBLICATION-DATE: August 31, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Downes; Michael R.	San Diego	CA	US
Verdicia; Mark A.	New York	NY	US
Noel; Joseph P.	San Diego	CA	US
Evans; Ronald M.	La Jolla	CA	US
Bowman; Lindsey J.	San Diego	CA	US
Bowman; Marianne	San Diego	CA	US

US-CL-CURRENT: 530/350; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 20060189637 A1

L5: Entry 2 of 49 File: PGPB Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060189637
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060189637 A1

TITLE: Anilinoquinazaolines as protein tyrosine kianse inhibitors

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cockerill; George Stuart	Maulden	NC	GB
Lackey; Karen Elizabeth	Durham		US

US-CL-CURRENT: 514/264.11; 544/279

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 3. Document ID: US 20060167090 A1

L5: Entry 3 of 49 File: PGPB Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060167090
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060167090 A1

TITLE: BTK inhibitors

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Uckun; Fatih M.	White Bear Lake	MN	US
Malaviya; Ravi	Shoreview	MN	US

US-CL-CURRENT: 514/521

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 4. Document ID: US 20060167020 A1

L5: Entry 4 of 49 File: PGPB Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060167020
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060167020 A1

TITLE: Pyrazolopyrimidines as kinase inhibitors

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dickerson; Scott Howard	Durham	NC	US
Garrido; Dulce Maria	Durham	NC	US
Mills; Wendy Yoon	Durham	NC	US
Kano; Kazuya	Tsukuba-shi	NC	JP
Peat; Andrew James	Durham	NC	US
Thomson; Stephen Andrew	Durham	NC	US
Wilson; Jayme Lyn Roark	Durham	NC	US
Zhou; Hui-QuiangQ	Durham		US

US-CL-CURRENT: 514/262.1; 544/262

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 20060128745 A1

L5: Entry 5 of 49 File: PGPB Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060128745
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060128745 A1

TITLE: Chemical compounds

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lackey; Karen Elizabeth	Durham	NC	US
Wood; Edgar Raymond III	Durham	NC	US

US-CL-CURRENT: 514/300; 546/113

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 20060106006 A1

L5: Entry 6 of 49 File: PGPB May 18, 2006

PGPUB-DOCUMENT-NUMBER: 20060106006
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060106006 A1

TITLE: Vanadium compounds for treating cancer

PUBLICATION-DATE: May 18, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Uckun; Fatih M.	White Bear Lake	MN	US
Dong; Yanhong	Moundsview	MN	US
Gosh; Phalguni	Shoreview	MN	US

US-CL-CURRENT: 514/184; 514/185, 546/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 20060073562 A1

L5: Entry 7 of 49 File: PGPB Apr 6, 2006

PGPUB-DOCUMENT-NUMBER: 20060073562
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060073562 A1

TITLE: Protein tyrosine kinase substrate LAT and its use in the indentification of (ANT)agonists of the kinase

PUBLICATION-DATE: April 6, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Samelson; Lawrence E.	Chevy Chase	MD	US
Zhang; Weiguo	Chapel Hill	NC	US

US-CL-CURRENT: 435/69.1; 435/194, 435/320.1, 435/325, 530/388.26, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 8. Document ID: US 20060030016 A1

L5: Entry 8 of 49 File: PGPB Feb 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060030016
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060030016 A1

TITLE: Crystal structure of interleukin-2 tyrosine kinase (ITK) and binding pockets thereof

PUBLICATION-DATE: February 9, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cheetham; Graham	Abingdon		GB
Brown; Kieron	Bicester		GB
Knegtel; Ronald	Abingdon		GB
Renwick; Suzanne	Middlesex		GB
Vial; Sarah	Newbury		GB

US-CL-CURRENT: 435/194; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 9. Document ID: US 20050282810 A1

L5: Entry 9 of 49 File: PGPB Dec 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050282810
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050282810 A1

TITLE: Oxindole derivatives

PUBLICATION-DATE: December 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Harris, Philip Anthony	Durham	NC	US
Hunter, Robert N.	Durham	NC	US
Kuyper, Lee Frederick	Durham	NC	US
Lackey, Karen Elizabeth	Durham	NC	US
McNutt, Robert Walton JR.	Durham	NC	US
Peel, Michael Robert	Durham	NC	US
Wood, Edgar Raymond III	Durham	NC	US

US-CL-CURRENT: 514/242; 514/323, 514/364, 514/381, 514/418

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 10. Document ID: US 20050267133 A1

L5: Entry 10 of 49 File: PGPB Dec 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050267133
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050267133 A1

TITLE: Pyrazolopyrimidines as kinase inhibitors

PUBLICATION-DATE: December 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Brown, Matthew Lee	Indianapolis	IN	US
Cheung, Mui	Durham	NC	US
Dickerson, Scott Howard	Durham	NC	US
Drewry, David Harold	Durham	NC	US
Lackey, Karen Elizabeth	Durham	NC	US
Peat, Andrew James	Durham	NC	US
Thomson, Stephen Andrew	Durham	NC	US
Veal, James Marvin	Apex	NC	US
Wilson, Jayme Lyn Roark	Durham	NC	US

US-CL-CURRENT: 514/262.1; 544/262

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 11. Document ID: US 20050261315 A1

L5: Entry 11 of 49 File: PGPB Nov 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050261315
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050261315 A1

TITLE: Amide derivatives as kinase modulators

PUBLICATION-DATE: November 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mehta, Shamal A.	San Diego	CA	US
Grotzfeld, Robert M.	Carlsbad	CA	US
Milanov, Zdravko V.	San Diego	CA	US
Lai, Andiliy G.	San Diego	CA	US
Patel, Hitesh K.	Encinitas	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 514/263.2; 514/266.2, 514/300, 514/378, 544/277, 544/284, 546/122, 548/245

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 12. Document ID: US 20050239806 A1

L5: Entry 12 of 49 File: PGPB Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050239806
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050239806 A1

TITLE: Pyrrolopyrimidine derivatives and analogs and their use in the treatment and prevention of diseases

PUBLICATION-DATE: October 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mehta, Shamal A.	San Diego	CA	US
Sai, Andiliy G.	San Diego	CA	US
Milanov, Zdravko V.	San Diego	CA	US
Grotzfeld, Robert M.	Carlsbad	CA	US
Patel, Hitesh K.	Encinitas	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 514/260.1; 514/263.3, 514/263.34, 514/263.37, 514/265.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 13. Document ID: US 20050233327 A1

L5: Entry 13 of 49 File: PGPB Oct 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050233327
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050233327 A1

TITLE: Methods for identifying small molecules that modulate premature translation termination and nonsense mrna decay

PUBLICATION-DATE: October 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Welch, Ellen	Califon	NJ	US
Zhuo, Jin	Belle Meade	NJ	US

US-CL-CURRENT: 435/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 14. Document ID: US 20050196851 A1

L5: Entry 14 of 49 File: PGPB Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050196851
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050196851 A1

TITLE: Crystal structure of the BTK kinase domain

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Uckun, Fatih M.	White Bear Lake	MN	US

US-CL-CURRENT: 435/194; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 15. Document ID: US 20050196808 A1

L5: Entry 15 of 49 File: PGPB Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050196808
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050196808 A1

TITLE: Products and processes for modulating peptide-peptide binding domain

interactions

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yaffe, Michael B.	West Roxbury	MA	US
Elia, Andrew E. H.	Boston	MA	US
Rellos, Peter	Herts	MA	GB
Cantley, Lewis C.	Cambridge	MA	US
Smerdon, Stephen J.	London		GB
Manke, Isaac	Cambridge		US

US-CL-CURRENT: 435/7.1; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 16. Document ID: US 20050187389 A1

L5: Entry 16 of 49 File: PGPB Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050187389
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050187389 A1

TITLE: Pyrrolopyrimidine derivatives and analogs and their use in the treatment and prevention of diseases

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Milanov, Zdravko V.	San Diego	CA	US
Mehta, Shamal A.	San Diego	CA	US
Lai, Andiliy G.	San Diego	CA	US
Patel, Hitesh K.	Encinitas	CA	US
Grotzfeld, Robert M.	Carlsbad	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 544/250; 544/280

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 17. Document ID: US 20050165031 A1

L5: Entry 17 of 49 File: PGPB Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050165031
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050165031 A1

TITLE: Urea derivatives as ABL modulators

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Grotzfeld, Robert M.	Carlsbad	CA	US
Patel, Hitest K.	Encinitas	CA	US
Mehta, Shamal A.	San Diego	CA	US
Milanov, Zdravko V.	San Diego	CA	US
Lai, Andiliy G.	San Diego	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 514/263.2; 514/265.1, 514/266.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 18. Document ID: US 20050165029 A1

L5: Entry 18 of 49 File: PGPB Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050165029
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050165029 A1

TITLE: Pyrrolopyrimidine derivatives and analogs and their use in the treatment and prevention of diseases

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Patel, Hitesh K.	Encinitas	CA	US
Mehta, Shamal A.	San Diego	CA	US
Lai, Andiliy G.	San Diego	CA	US
Milanov, Zdravko V.	San Diego	CA	US
Grotzfeld, Robert M.	Carslbad	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 514/260.1; 514/265.1, 514/267, 544/250, 544/278, 544/280

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 19. Document ID: US 20050165024 A1

L5: Entry 19 of 49 File: PGPB Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050165024
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050165024 A1

TITLE: Urea derivatives as kinase modulators

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Milanov, Zdravko V.	San Diego	CA	US
Patel, Hitesh K.	Encinitas	CA	US
Grotzfeld, Robert M.	Carlsbad	CA	US
Mehta, Shamal A.	San Diego	CA	US
Lai, Andiliy G.	San Diego	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 514/248; 514/263.2, 514/266.2, 514/314, 514/378, 544/234, 544/277, 546/169, 548/245

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 20. Document ID: US 20050164300 A1

L5: Entry 20 of 49 File: PGPB Jul 28, 2005

PGPUB-DOCUMENT-NUMBER: 20050164300
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050164300 A1

TITLE: Molecular scaffolds for kinase ligand development

PUBLICATION-DATE: July 28, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Artis, Dean R.	Kensington	CA	US
Bremer, Ryan E.	Oakland	CA	US
Gillette, Samuel J.	Oakland	CA	US
Hurt, Clarence R.	San Ramon	CA	US
Ibrahim, Prabha L.	Mountain View	CA	US
Zuckerman, Rebecca L.	Alameda	CA	US

US-CL-CURRENT: 435/7.1; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 21. Document ID: US 20050153989 A1

L5: Entry 21 of 49 File: PGPB Jul 14, 2005

PGPUB-DOCUMENT-NUMBER: 20050153989
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050153989 A1

TITLE: Pyrrolopyrimidine derivatives and analogs and their use in the treatment and prevention of diseases

PUBLICATION-DATE: July 14, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Grotzfeld, Robert M.	Carlsbad	CA	US
Patel, Hitesh K.	Encinitas	CA	US
Mehta, Shamal A.	San Diego	CA	US
Milanov, Zdravko V.	San Diego	CA	US
Lai, Andiliy G.	San Diego	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 514/260.1; 514/263.4, 514/265.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 22. Document ID: US 20050148605 A1

L5: Entry 22 of 49 File: PGPB Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050148605
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050148605 A1

TITLE: Amide derivatives as ABL modulators

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Grotzfeld, Robert M.	Carlsbad	CA	US
Patel, Hitesh K.	Encinitas	CA	US
Mehta, Shamal A.	San Diego	CA	US
Milanov, Zdravko V.	San Diego	CA	US
Lai, Andiliy G.	San Diego	CA	US
Lockhart, David J.	Del Mar	CA	US

US-CL-CURRENT: 514/263.2; 514/266.23

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 23. Document ID: US 20050143401 A1

L5: Entry 23 of 49 File: PGPB Jun 30, 2005

PGPUB-DOCUMENT-NUMBER: 20050143401
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050143401 A1

TITLE: Anilinoquinazaolines as protein tyrosine kianse inhibitors

PUBLICATION-DATE: June 30, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cockerill, George Stuart	Maulden	NC	GB
Lackey, Karen Elizabeth	Durham		US

US-CL-CURRENT: 514/266.2; 514/266.4, 544/284, 544/293

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 24. Document ID: US 20050142614 A1

L5: Entry 24 of 49 File: PGPB Jun 30, 2005

PGPUB-DOCUMENT-NUMBER: 20050142614
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050142614 A1

TITLE: Methods for ligand discovery

PUBLICATION-DATE: June 30, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wells, Jim	Burlingame	CA	US
Erlanson, Dan	San Francisco	CA	US
Braisted, Andrew C.	San Francisco	CA	US

US-CL-CURRENT: 435/7.1; 436/86, 530/408

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 25. Document ID: US 20040235815 A1

L5: Entry 25 of 49 File: PGPB Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040235815
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040235815 A1

TITLE: Vanadium compounds for treating cancer

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Uckun, Faith M.	White Bear Lake	MN	US

Dong, Yanhong	Moundsview	MN	US
Gosh, Phalguni	Shoreview	MN	US

US-CL-CURRENT: 514/184; 546/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 26. Document ID: US 20040219523 A1

L5: Entry 26 of 49 File: PGPB Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040219523
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040219523 A1

TITLE: Nucleic acid sensor molecules and methods of using same

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Stanton, Martin	Stow	MA	US
Epstein, David	Belmont	MA	US
Hamaguchi, Nobuko	Framingham	MA	US
Kurz, Markus	Newton	MA	US
Keefe, Tony	Cambridge	MA	US
Wilson, Charles	Concord	MA	US
Grate, Dilara	Waltham	MA	US
Marshall, Kristin A.	Arlington	MA	US
McCauley, Thomas G.	Somerville	MA	US
Kurz, Jeffrey C.	Somerville	MA	US

US-CL-CURRENT: 435/6; 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 27. Document ID: US 20040204863 A1

L5: Entry 27 of 49 File: PGPB Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040204863
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040204863 A1

TITLE: Crystal of a kinase-ligand complex and methods of use

PUBLICATION-DATE: October 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kim, Joseph L.	Natick	MA	US
Morgenstern, Kurt A.	Derry	NH	US
Rose, Paul E.	Waban	MA	US
Zhu, Xiaotian	Watertown	MA	US

US-CL-CURRENT: 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 28. Document ID: US 20040198766 A1

L5: Entry 28 of 49 File: PGPB Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040198766
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040198766 A1

TITLE: Chemical compounds

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lackey, Karen Elizabeth	Durham	NC	US
Wood, Edgar Raymond	Durham	NC	US

US-CL-CURRENT: 514/300; 546/113

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 29. Document ID: US 20040191210 A1

L5: Entry 29 of 49 File: PGPB Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040191210
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040191210 A1

TITLE: Compounds

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Glennon, Kimberley Caroline	Cary	NC	US
Kuyper, Lee Frederick	Durham	NC	US
Lackey, Karen Elizabeth	Hillsborough	NC	US
McNutt, Robert Walton JR.	Durham	NC	US

US-CL-CURRENT: 424/78.17

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 30. Document ID: US 20040185547 A1

L5: Entry 30 of 49 File: PGPB Sep 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040185547
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040185547 A1

TITLE: Crystals of the tyrosine kinase domain of non-insulin receptor tyrosine kinases

PUBLICATION-DATE: September 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mohammadi, Moosa	New York	NY	US
Schlessinger, Joseph	New York	NY	US
Hubbard, Stevan R.	Riverdale	NY	US

US-CL-CURRENT: 435/194; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 31. Document ID: US 20040171075 A1

L5: Entry 31 of 49 File: PGPB Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171075
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040171075 A1

TITLE: Modulation of protein functionalities

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Flynn, Daniel L.	Lawrence	KS	US
Petillo, Peter A.	Arlington	MA	US

US-CL-CURRENT: 435/7.1; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 32. Document ID: US 20040171056 A1

L5: Entry 32 of 49 File: PGPB Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171056
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040171056 A1

TITLE: Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Stanton, Vincent P. JR.	Belmont	MA	US

US-CL-CURRENT: 435/6; 530/350, 536/24.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 33. Document ID: US 20040072836 A1

L5: Entry 33 of 49 File: PGPB Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040072836
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040072836 A1

TITLE: Substituted aza-oxindole derivatives

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Harris, Philip Anthony	Durham	NC	US
Kuyper, Lee Frederick	Durham	NC	US
Lackey, Karen Elizabeth	Durham	NC	US
Veal, James Marvin	Durham	NC	US

US-CL-CURRENT: 514/249; 514/265.1, 514/300, 544/281, 544/350, 546/113

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 34. Document ID: US 20040053946 A1

L5: Entry 34 of 49 File: PGPB Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040053946
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040053946 A1

TITLE: Cancer treatment method

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lackey, Karen Elizabeth	Durham	NC	US
Spector, Neil	Durham	NC	US
Wood lll, Edgar Raymond	Durham	NC	US
Xia, Wenle	Durham	NC	US

US-CL-CURRENT: 514/264.11; 514/266.2, 514/266.24

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 35. Document ID: US 20040043426 A1

L5: Entry 35 of 49 File: PGPB Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040043426
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040043426 A1

TITLE: Methods for ligand discovery

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wells, Jim	Burlingame	CA	US
Erlanson, Dan	San Francisco	CA	US
Braisted, Andrew C.	San Francisco	CA	US

US-CL-CURRENT: 435/7.1; 250/281, 436/518, 530/404

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 36. Document ID: US 20040023981 A1

L5: Entry 36 of 49 File: PGPB Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023981
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040023981 A1

TITLE: Salt forms with tyrosine kinase activity

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ren, Yu	North Wales	PA	US
Karki, Shyam B.	Lansdale	PA	US
Zhao, Matthew M.	Edison	NJ	US
Bidodeau, Mark T.	Lansdale	PA	US

US-CL-CURRENT: 514/253.1; 544/360

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 37. Document ID: US 20040023980 A1

L5: Entry 37 of 49 File: PGPB Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023980
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040023980 A1

TITLE: Polymorphs with tyrosine kinase activity

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhao, Matthew M.	Edison	PA	US
Bilodeau, Mark T.	Lansdale	PA	US

US-CL-CURRENT: 514/253.1; 544/360

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 38. Document ID: US 20040023978 A1

L5: Entry 38 of 49 File: PGPB Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023978
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040023978 A1

TITLE: Active salt forms with tyrosine kinase activity

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ren, Yu	North Wales	PA	US
Karki, Shyam B.	Lansdale	PA	US
Zhao, Matthew M.	Edison	NJ	US
Bilodeau, Mark T.	Lansdale	PA	US

US-CL-CURRENT: 514/253.1; 544/360

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 39. Document ID: US 20030225090 A1

L5: Entry 39 of 49 File: PGPB Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030225090
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030225090 A1

TITLE: Oxindole derivatives

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY

Harris, Philip Anthony	Durham	NC	US
McNutt, Robert Walton JR.	Durham	NC	US
Kuyper, Lee Frederick	Durham	NC	US
Lackey, Karen Elizabeth	Durham	NC	US
Peel, Michael Robert	Durham	NC	US
Wood, Edgar Raymond III	Durham	NC	US

US-CL-CURRENT: 514/243; 514/323, 514/381, 514/418, 544/184, 546/201, 548/266.4, 548/484

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 40. Document ID: US 20030144351 A1

L5: Entry 40 of 49 File: PGPB Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030144351
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030144351 A1

TITLE: BTK inhibitors and methods for their identification and use

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Uckun, Fatih M.	White Bear Lake	MN	US
Malaviya, Ravi	White House Station	NJ	US

US-CL-CURRENT: 514/521

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 41. Document ID: US 20030073678 A1

L5: Entry 41 of 49 File: PGPB Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030073678
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030073678 A1

TITLE: Vanadium compounds for treating cancer

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Uckun, Fatih M.	White Bear Lake	MN	US
Dong, Yanhong	Moundsview	MN	US
Gosh, Phalguni	Shoreview	MN	US

US-CL-CURRENT: 514/184; 514/185, 546/2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 42. Document ID: US 20030069430 A1

L5: Entry 42 of 49 File: PGPB Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030069430
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030069430 A1

TITLE: Substituted oxindole derivatives as protein tyrosine and as protein serine/threonine kinase inhibitors and compositions and methods of treating chemotherapy and radiation therapy side effects

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Davis, Stephen Thomas	Durham	NC	US
Dickerson, Scott Howard	Chapel Hill	NC	US
Frye, Stephen Vernon	Durham	NC	US
Harris, Philip Anthony	Raleigh	NC	US
Hunter, Robert Neil III	Raleigh	NC	US
Kuyper, Lee Frederick	Durham	NC	US
Lackey, Karen Elizabeth	Hillsborough	NC	US
Luzzio, Michael Joseph	Groton	CT	US
Veal, James Marvin	Apex	NC	US
Walker, Duncan Herrick	Summit	NJ	US

US-CL-CURRENT: 546/277.7; 548/486

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 43. Document ID: US 20020155505 A1

L5: Entry 43 of 49 File: PGPB Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155505
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020155505 A1

TITLE: Methods for ligand discovery

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wells, Jim	Burlingame	CA	US

Erlanson, Dan	San Francisco	CA	US
Braisted, Andrew C.	San Francisco	CA	US

US-CL-CURRENT: 435/7.1; 530/324, 564/161, 564/192, 564/30, 564/84

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 44. Document ID: US 20020155217 A1

L5: Entry 44 of 49 File: PGPB Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155217
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020155217 A1

TITLE: Highly spin-polarized chromium dioxide thin films prepared by CVD using chromyl chloride precursor

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Desito, William J.	Orono	ME	US

US-CL-CURRENT: 427/255.28; 427/255.7

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 45. Document ID: US 20020146797 A1

L5: Entry 45 of 49 File: PGPB Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146797
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020146797 A1

TITLE: Engineered protein kinases which can utilize modified nucleotide triphosphate substrates

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shokat, Kevan M.	San Francisco	CA	US

US-CL-CURRENT: 435/194; 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 46. Document ID: US 20020107284 A1

L5: Entry 46 of 49 File: PGPB Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020107284
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020107284 A1

TITLE: Inhibitors of the EGF-receptor tyrosine kinase and methods for their use

PUBLICATION-DATE: August 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Uckun, Fatih M.	White Bear Lake	MN	US
Zheng, Yaguo	New Brighton	MN	US
Ghosh, Sutapa	Shoreview	MN	US

US-CL-CURRENT: 514/521

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 47. Document ID: US 20020099071 A1

L5: Entry 47 of 49 File: PGPB Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099071
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020099071 A1

TITLE: 3-(Anilinomethylene)oxindoles

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Glennon, Kimberley Caroline	Cary	NC	US
Kuyper, Lee Frederick	Durham	NC	US
Lackey, Karen Elizabeth	Hillsborough	NC	US
McNutt, Robert Walton JR.	Durham	NC	US

US-CL-CURRENT: 514/300; 546/113

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 48. Document ID: US 20020016976 A1

L5: Entry 48 of 49 File: PGPB Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020016976

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020016976 A1

TITLE: Engineered protein kinases which can utilize modified nucleotide triphosphate substrates

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shokat, Kevan M.	San Francisco	CA	US

US-CL-CURRENT: 800/8; 424/94.5, 435/15, 435/194, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

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☐ 49. Document ID: US 20010034023 A1

L5: Entry 49 of 49 File: PGPB Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034023
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010034023 A1

TITLE: Gene sequence variations with utility in determining the treatment of disease, in genes relating to drug processing

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Stanton, Vincent P. JR.	Belmont	MA	US
Zillmann, Martin	Shrewsbury	MA	US

US-CL-CURRENT: 435/6; 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw. De

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